

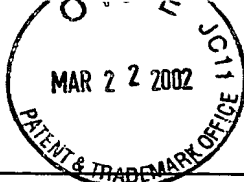




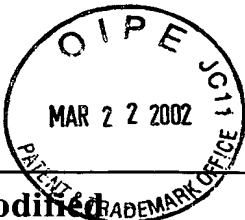
Form PTO-1449 Modified		Docket No. ISIS-4945	Serial No. 10/029,598
List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Applicant Ching-Leou Teng et al.	
		Filing Date December 21, 2001	Group 1635 Not yet assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AA	Akamo, Y. et al., "Chemotherapy Targeting Regional Lymph Nodes by Gastric Submucosal Injection of Liposomal Adriamycin in Patients with Gastric Carcinoma", <i>Jpn. J. Cancer Res.</i> , 1994 , 85, 652-658	
	AB	Albert, et al., "Antisense knockouts: molecular scalpels for the dissection of signal transduction", <i>Trends in Pharmacological Sciences</i> , 1994 , 15, 250-254	
	AC	Aungst, B.J. et al., "Site Dependence of Absorption-Promoting Actions of Laureth-9, Na Salicylate, Na ₂ EDTA, and Aprotinin on Rectal, Nasal, and Buccal Insulin Delivery", <i>Pharm. Res.</i> , 1988 , 5, 305-308	
	AD	Ausubel et al. (Eds.), <i>Short Protocols in Molecular Biology</i> , 2nd Ed., John Wiley & Sons, New York, NY, <i>Chapter 3</i> , 3-11 to 3-38, 1992	
	AE	Bailly, C. et al., "PCR-based development of DNA substrates containing modified bases: An efficient system for investigating the role of the exocyclic groups in chemical and structural recognition by minor groove binding drugs and proteins", <i>Proc. Natl. Acad. Sci. USA.</i> , 1996 , 93, 13623-13628	
	AF	Baker, B.F. et al., "Cleavage of the 5' Cap Structure of mRNA by a Europium(III) Macrocyclic Complex with Pendant Alcohol Groups", <i>J. Am. Chem. Soc.</i> , 1997 , 119(38), 8749-8755	
	AG	Beck, S., "Nonradioactive Detection of DNA Using dioxetane Chemiluminescence", <i>Methods in Enzymology</i> , 1992 , 216, 143-153	
	AH	Benet, L.Z. et al., "Pharmacokinetics: The Dynamics of Drug Absorption, Distribution, and Elimination", <i>Goodman & Gilman's The Pharmacological Basis of Therapeutics</i> , 9th Ed., Hardman et al. (eds.), McGraw-Hill, New York, NY, 1996 , <i>Chapter 1</i> , 3-9	
	AI	Berge, S.M. et al., "Pharmaceutical Salts", <i>J. Pharm. Sci.</i> , 1977 , 66, 1-19	
	AJ	Block, L., "Medicated Applications", <i>Remington's Pharmaceutical Sciences</i> , 18th Ed., Gennaro (ed.), Mack Publishing Co., Easton, PA, 1990 , <i>Ch. 87</i> , 1596-1614	
	AK	Block, L., "Pharmaceutical Dosage Forms: Disperse Systems", Vol. 2, Lieberman, Rieger and Banker, Eds., Marcel Dekker, Inc., New York, NY, 1989 , <i>Chapter 9</i> , pgs. 335-378	
EXAMINER <u>JANETTE PPS-FORD</u>		DATE CONSIDERED <u>2-3-03</u>	



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIS-4945	Serial No. 10/029,598
		Applicant Ching-Leou Teng et al.	
		Filing Date December 21, 2001	Group 1035 Not yet assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AL	Brunton, L.L., "Agents Affecting Gastrointestinal Water Flux and motility; Emesis and Antiemetics; Bile Acids and Pancreatic Enzymes", <i>Goodman & Gilman's The Pharmacological Basis of Therapeutics</i> , 9th Ed., Hardman et al. (Eds.), McGraw-Hill, New York, 1996 , Chapter 38, 934-935	
	AM	Buur, A. et al., "Penetration of 5-Fluorouracil and prodrugs across the intestine of the albino rabbit: Evidence for shift in absorption site from the upper to the lower region of the gastrointestinal tract by prodrugs", <i>J. Controlled Release</i> , 1990 , 14, 43-51	
	AN	Buzayan, J.M. et al., "Satellite tobacco ringspot virus RNA: A subset of the RNA sequence is sufficient for autolytic processing", <i>Proc. Natl. Acad. Sci. USA</i> , 1986 , 83, 8859-8862	
	AO	Chollet, A. et al., "DNA containing the base analogue 2-aminoadenine: preparation, use as hybridization probes and cleavage by restriction endonucleases", <i>Nucl. Acids Res.</i> , 1988 , 16, 305-317	
	AP	Cole-Strauss, A. et al., "Correction of the Mutation Responsible for Sickle Cell Anemia by an RNA-DNA Oligonucleotide", <i>Science</i> , 1996 , 273, 1386-1389	
	AQ	Constantinides, P.P. et al., "Formulation and Intestinal Absorption Enhancement Evaluation of Water-in-Oil Microemulsions Incorporating Medium-Chain Glycerides", <i>Pharm. Res.</i> , 1994 , 11, 1385-1390	
	AR	Crooke, S.T. et al., "Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in mice", <i>J. Pharmacol. Exp. Therapeutics</i> , 1996 , 277, 923-937	
	AS	Crooke, S.T., "Progress in Antisense Therapeutics", <i>Hematologic Path.</i> , 1995 , 9, 59-72	
	AT	Crooke, et al., "Progress in the development and patenting of antisense drug discovery technology", <i>Exp. Opin. Ther. Patents</i> , 1996 , 6, 855-870	
	AU	Dean, N.M. et al., "Inhibition of protein kinase C- α expression in mice after systemic administration of phosphorothioate antisense oligodeoxynucleotides", <i>Proc. Natl. Acad. Sci.</i> , 1994 , 91, 11762-11766	
EXAMINER		DATE CONSIDERED	
JANET EPPS-FORD		2-3-03	



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIS-4945	Serial No. 10/029,598
		Applicant Ching-Leou Teng et al.	
		Filing Date December 21, 2001	Group 1635 Not yet assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AV	DiSanto, A.R., "Bioavailability and Bioequivalency Testing", <i>Remington's Pharmaceutical Sciences</i> , 18th Ed., Gennaro (ed.), Mack Publishing Co., Easton, PA, 1990 , Ch. 76, 1451-1458	
	AW	Dustin and Springer, "Lymphocyte Function-associated Antigen-1 (LFA-1) Interaction with Intercellular Adhesion Molecule-1 (ICAM-1) is One of At Least Three Mechanisms for Lymphocyte Adhesion to Cultured Endothelial Cells", <i>J. Cell. Biol.</i> , 1988 , 107, 321-331	
	AX	El-Hariri, et al., "The Mitigating Effect of Phosphatidylcholines on Bile Salt-and Lysophosphatidylcholine-induced Membrane Damage", <i>J. Pharm. Pharmacol.</i> , 1992 , 44, 651-654	
	AY	Ellington, A.D. et al., "In vitro selection of RNA molecules that bind to specific ligands", <i>Nature</i> , 1990 , 346, 818-822	
	AZ	Englisch, U. et al., "Chemically Modified Oligonucleotides as Probes and Inhibitors", <i>Angew. Chem. Int. Ed. Eng.</i> , 1991 , 30, 613-629	
	BA	Freier, S.M. et al., "The ups and downs of nucleic acid duplex stability: structure-stability studies on chemically-modified DNA:RNA duplexes", <i>Nucl. Acids Res.</i> , 1997 , 25, 4429-4443	
	BB	Forster A.C. et al., "Self-Cleavage of Virusoid RNA is Performed by the Proposed 55-Nucleotide Active Site", <i>Cell</i> , 1987 , 50, 9-16	
	BC	Forster, A.C. et al., "External Guide Sequences for an RNA Enzyme", <i>Science</i> , 1990 , 249, 783-786	
	BD	Gaffney, B.L. et al., "The Influence of the Purine 2-Amino Group on DNA Conformation and Stability-II", <i>Tetrahedron</i> , 1984 , 40, 3-13	
	BE	<i>Genetic Engineering News</i> , 1997 , pgs. 1 and 34	
	BF	Graham, M.J. et al., "Tritium labeling of antisense oligonucleotides by exchange with tritiated water", <i>Nucl. Acids Res.</i> , 1993 , 21, 3737-3743	
	BG	Guerrier-Takada, et al., "Phenotypic conversion of drug-resistant bacteria to drug sensitivity", <i>Proc. Natl. Acad. Sci. USA</i> , 1997 , 94, 8468-8472	
EXAMINER SANET LEPPS		DATE CONSIDERED 2-3-03	



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIS-4945	Serial No. 10/029,598
		Applicant Ching-Leou Teng et al.	
		Filing Date December 21, 2001	Group 1635 Not yet assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	BH	Harvey, S.C., "Drug Absorption, Action, and Disposition", <i>Remington's Pharmaceutical Sciences</i> , 18th Ed., Gennaro (ed.), Mack Publishing Co., Easton, PA, 1990 , Ch. 35, 711-715	
	BI	Haseloff, J. et al., "Simple RNA enzymes with new and highly specific endoribonuclease activities", <i>Nature</i> , 1988 , 334, 585-591	
	BJ	Higuchi, et al., "Particle Phenomena and Coarse Dispersions", <i>Remington's Pharmaceutical Sciences</i> , Mack Publishing Co., Easton, PA, 1985 , Chapter 21, pgs. 301-329	
	BK	Hirahata, et al., <i>Gen To Kagaku Ryoho</i> , 1992 , 19(10 Suppl.), 1591-1594	
	BL	Ho, H.O. et al., "Preparation of Microemulsions Using Polyglycerol Fatty Acid Esters as Surfactant for the Delivery of Protein Drugs", <i>J. Pharm. Sci.</i> , 1996 , 85, 138-143	
	BM	Idson, "Pharmaceutical Emulsions", in <i>Pharmaceutical Dosage Forms: Disperse Systems</i> , Vol. 1, Lieberman, Rieger and Banker, Eds., Marcel Dekker, Inc., New York, NY, 1988 , Chapter 6, pgs. 199-243	
	BN	Inoue, Y. et al., "Trial of Electrolyzed Strong Acid Aqueous Solution Lavage in the treatment of Peritonitis and Intraperitoneal Abscess", <i>Artificial Organs</i> , 1997 , 21, 28-31	
	BO	Jarrett, H.W., "Affinity chromatography with nucleic acid polymers", <i>J. Chromatog.</i> , 1993 , 618, 315-339	
	BP	Kabanov, A.V., "A new class of antivirals: antisense oligonucleotides combined with a hydrophobic substituent effectively inhibit influenza virus reproduction and synthesis of virus-specific proteins in MDCK cells", <i>FEBS Letts.</i> , 1990 , 259, 327-330	
	BQ	Katocs, A.S. et al., "Biological Testing", <i>Remington's Pharmaceutical Sciences</i> , 18th Ed., Gennaro (ed.), Mack Publishing Co., Easton, PA, 1990 , Chapter 27, 484-494	
	BR	Komiya, I. et al., "Quantitative Mechanistic Studies in Simultaneous Fluid Flow And Intestinal Absorption Using Steroids As Model Solutes", <i>Int. J. Pharmaceut.</i> , 1980 , 4, 249-262	
	BS	Kornberg, A., <i>DNA Replication</i> , 1980 , W.H. Freeman & Co., San Francisco, 4-7	
EXAMINER		JANET LEPPS-FORD	
		DATE CONSIDERED 2-3-03	



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIS-4945	Serial No. 10/029,598
		Applicant Ching-Leou Teng et al.	
		Filing Date December 21, 2010	Group 1635 Not yet assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	BT	Kroschwitz, J.I., "Polynucleotides", <i>Concise Encyclopedia of Polymer Science and Engineering</i> , 1990, John Wiley & Sons, New York, 858-859	
	BU	Lee, V.H.L. et al., "Mucosal Penetration Enhancers For Facilitation of Peptide and Protein Drug Absorption", <i>Crit. Rev. Ther. Drug Carrier Systems</i> , 1991, 8, 91-192	
	BV	Letsinger, R.L. et al., "Cholesteryl-conjugated oligonucleotides: Synthesis, properties and activity as inhibitors of replication of human immunodeficiency virus in cell culture", <i>Proc. Natl. Acad. Sci.</i> , 1989, 86, 6553-6556	
	BW	Leung and Shah, "Microemulsions: An Evolving Technology for Pharmaceutical Applications" in <i>Controlled Release of Drugs: Polymers and Aggregate Systems</i> , Rosoff, M., Ed., 1989, Chapter 6, VCH Publishers, New York, pgs. 185-215	
	BX	Manoharan M. et al., "Cholic Acid-Oligonucleotide Conjugates for Antisense Applications", <i>Bioorganic Med. Chem. Letts.</i> , 1994, 4, 1053-1060	
	BY	Manoharan, M. et al., "Chemical Modifications to Improve Uptake and Bioavailability of Antisense Oligonucleotides", <i>Annals NY Acad. Sciences</i> , 1992, 660, 306-309	
	BZ	Manoharan, M. et al., "Introduction of a Lipophilic Thioether Tether in the Minor Groove of Nucleic Acids for Antisense Applications", <i>Bioorg. Med. Chem. Letts.</i> , 1993, 3, 2765-2770	
	CA	Manoharan, M. et al., "Lipidic Nucleic Acids", <i>Tetrahedron Letts.</i> , 1995, 36, 3651-3654	
	CB	Manoharan M. et al., "Oligonucleotide Conjugates: Alteration of the Pharmacokinetic Properties of Antisense Agents", <i>Nucleosides and Nucleotides</i> , 1995, 14, 969-973	
	CC	Martin, P., "Ein neuer Zugang zu 2'-O-Alkylribonucleosiden und Eigenschaften deren Oligonucleotide", <i>Helvetica Chemica Acta</i> , 1995, 78, 486-504 (English summary included)	
	CD	Mishra, R.K. et al., "Improved leishmanicidal effect of phosphorotioate antisense oligonucleotides by LDL-medicated delivery", <i>Biochim. Et Biophysica</i> , 1995, 1264, 229-237	
	CE	Miyao, T. et al., "Stability and Pharmacokinetic Characteristics of Oligonucleotides Modified at Terminal Linkages in Mice", <i>Antisense Res. & Dev.</i> , 1995, 5, 115-121	
EXAMINER		DATE CONSIDERED	
JANET EPPS-FORD		2-3-03	



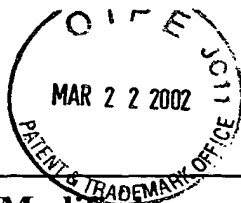
Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. ISIS-4945	Serial No. 10/029,598
	Applicant Ching-Leou Teng et al.	
	Filing Date December 21, 2001	Group 1635 Not yet assigned

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>JG</i>	CF	Muranishi, S., "Absorption Enhancers", <i>Crit. Rev. Ther. Drug Carrier Systems</i> , 1990 , 7, 1-33
*	CG	Nairn, Chapter 83; Blick, Chapter 87; Rudnic, et al.; Chapter 89; Porter, Chapter 90 and Longer, et al., Chapter 91 in Remington's Pharmaceutical Sciences 18 th Ed., Gennaro, ed., Mack Publishing Co., Easton, PA, 1990
<i>Je</i>	CH	Nielsen, P.E. et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide", <i>Science</i> , 1991 , 254, 1497-1500
	CI	Nies, A.S. et al., "Principles of Therapeutics", <i>Goodman & Gilman's The Pharmacological Basis of Therapeutics</i> , 9th Ed., Hardman et al. (eds.), McGraw-Hill, New York, NY, 1996 , Chapter 3, 43-62
	CJ	Nishihata and Rytting, "Absorption-promoting adjuvants: enhancing action on rectal absorption", <i>Advanced Drug Delivery Reviews</i> , 1997 , 28, 205-228
	CK	Oberhauser, B. et al., "Effective incorporation of 2'-O-methyl-oligonucleotides into liposomes and enhanced cell association through modification with thiocholesterol", <i>Nucl. Acids Res.</i> , 1992 , 20, 533-538
	CL	Pennington, C.R. et al., "Review article: artificial nutritional support for improved patient care", <i>Aliment Pharmacol. Ther.</i> , 1995 , 9, 471-481
	CM	Hyrup, B. et al., "Peptide Nucleic Acids (PNA): Synthesis, Properties, and Potential Applications", <i>Biorg. & Med. Chem.</i> , 1996 , 4, 5-23
	CN	Prosnyak, M.I. et al., "Substitution of 2-Amino adenine and 5-Methylcytosine for Adenine and Cytosine in Hybridization Probes Increases the Sensitivity of DNA Fingerprinting", <i>Genomics</i> , 1994 , 21, 490-494
	CO	Rieger, "Surfactants", in <i>Pharmaceutical Dosage Forms: Disperse Systems</i> , Vol. 1, Lieberman, Rieger and Banker, Eds., Marcel Dekker, Inc., New York, NY, 1988 , Chapter 8, pgs. 285-366
	CP	Ritschel, W.A., "Microemulsions for Improved Peptide Absorption from the Gastrointestinal Tract", <i>Meth. Find. Exp. Clin. Pharmacol.</i> , 1991 , 13, 205-220
<i>JG</i>	CQ	Robertson, D., "Crohn's trial shows the pros of antisense", <i>Nature Biotech.</i> , 1997 , 15, 209

EXAMINER <i>JANET EPPSFORD</i>	DATE CONSIDERED <i>2-3-03</i>
---------------------------------------	--------------------------------------

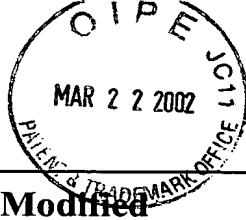
* A copy of this reference will not be forwarded to the Patent Office since it is believed to be too voluminous to send and easily obtainable by the Examiner.



Form PTO-1449 Modified		Docket No. ISIS-4945	Serial No. 10/029,598
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Ching-Leou Teng et al.	
U.S. Department of Commerce Patent and Trademark Office		Filing Date December 21, 2001	Group 1635 Not yet assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
<i>JE</i>	CR	Rosoff, M., "Specialized Pharmaceutical Emulsions", in <i>Pharmaceutical Dosage Forms: Disperse Systems</i> , Vol. 1, Lieberman, Rieger and Banker, Eds., Marcel Dekker, Inc., New York, NY 1988 , Chapter 7, pgs. 245-283	
	CS	Ruth, J.L., "Oligonucleotide-Enzyme Conjugates," <i>Methods of Molecular Biology</i> , Agrawal, S. (ed.), Humana Press, Totowa, NJ, 1994 , Chapter 6, 167-185	
	CT	Saison-Behmoaras, T. et al., "Short modified antisense oligonucleotides directed against Ha-ras point mutation induce selective cleavage of the mRNA and inhibit T24 cells proliferation", <i>EMBO J.</i> , 1991 , 10, 1111-1118	
	CU	Sambrook et al. (eds.), "Preparation of Radiolabeled DNA and RNA Probes", <i>Molecular Cloning: A Laboratory Manual</i> , 1989 , 2d. Ed., Chapter 10, 10.1 to 10.70	
	CV	Sanghvi, Y.S., Chapter 15, <i>Antisense Research and Applications</i> , pgs. 273-288, Crooke, S.T. and Lebleu, B., eds., CRC Press, 1993	
	CW	Schott, H., "Colloidal Dispersions", in <i>Remington's Pharmaceutical Science</i> , Mack Publishing Co., Easton, PA, 1985 , Chapter 20, , pgs. 271-300	
	CX	Shea, R.G. et al., "Synthesis, hybridization properties and antiviral activity of lipid-oligodeoxynucleotide conjugates", <i>Nucl. Acids Res.</i> , 1990 , 18, 3777-3783	
	CY	Smith, L.M., "Automated Synthesis and Sequence Analysis of Biological Macromolecules", <i>Analyt. Chem.</i> , 1988 , 60, 381-390	
	CZ	Somogyi, A.A. et al., "Evaluation of the Intestinal Absorption of Erythromycin in Man: Absolute Bioavailability Comparison with Enteric Coated Erythromycin", <i>Pharm. Res.</i> , 1995 , 12, 149-154	
	DA	Svinarchuk, F.P. et al., "Inhibition of HIV proliferation in MT-4 cells by antisense oligonucleotide conjugated to lipophilic groups", <i>Biochimie</i> , 1993 , 75, 49-54	
	DB	Swinyard, E.A., "Gastrointestinal Drugs", <i>Remington's Pharmaceutical Sciences</i> , 18th Ed., Gennaro (ed.), Mack Publishing Co., Easton, PA, 1990 , Chapter 39, 782-783	
<i>JE</i>	DC	Takahasi, H. et al., "The Use of a Perfluorochemical Emulsion as a Bascular Perfusate in Drug Absorption", <i>J. Pharm. Pharmacol.</i> , 1988 , 40, 252-257	
EXAMINER JANET LEE EPPS-FORD		DATE CONSIDERED 2-3-03	



Form PTO-1449 Modified		Docket No. ISIS-4945	Serial No. 10/029,598
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Ching-Leou Teng et al.	
U.S. Department of Commerce Patent and Trademark Office		Filing Date December 21, 2001	Group 1635 Not yet assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	DD	Takakura, Y. et al., "Uptake Characteristics of Oligonucleotides in the Isolated Rat Liver Perfusion System", <i>Antisense & Nuc. Acid Drug Dev.</i> , 1996 , 6, 177-183	
	DE	U.S. Congress, Office of Technology Assessment, "The State-of-the-Art in Genetic Screening", <i>Genetic Monitoring and Screening in the Workplace</i> , OTA-BA-455, U.S. Government Printing Office, Washington, D.C., 1990 , Chapter 5, 75-9	
	DF	van Berge-Henegouwen, G.P., "Pharmacology of Chenodeoxycholic Acid", <i>Gastroenterology</i> , 1977 , 73, 300-309	
	DG	Wahlestedt, C. et al., "Antisense oligodeoxynucleotides to NMDA-R1 receptor channel protect cortical neurons from excitotoxicity and reduce focal ischaemic infarctions", <i>Nature</i> , 1993 , 363, 260-263	
	DH	Wahlestedt, C. et al., "Modulation of Anxiety and Neuropeptide Y-Y1 Receptors by Antisense Oligodeoxynucleotides", <i>Science</i> , 1993 , 259, 528-531	
	DI	Warren, W.J. et al., "Analysis and Purification of Synthetic Oligonucleotides by High-Performance Liquid Chromatography", <i>Meth. Mol. Biol.</i> , 1994 , Chapter 9, 26, 233-264	
	DJ	Yamamoto, A. et al., "A Mechanistic Study on Enhancement of Rectal Permeability to Insulin in the Albino Rabbit", <i>J. Pharm. Exp. Ther.</i> , 1992 , 263, 25-31	
	DK	Yamashita, S. et al., "Effect of Adjuvants on charge-Selective Permeability and Electrical Resistance of Rat Jejunal Membrane", <i>J. Pharm. Sci.</i> , 1990 , 79, 579-583	
	DL	Yamashita, S. et al., "Effects of diclofenac sodium and disodium ethylenediaminetetraacetate on electrical parameters of the mucosal membrane and their relation to the permeability enhancing effects in the rat jejunum", <i>J. Pharm. Pharmacol.</i> , 1987 , 39, 621-626	
	DM	Zuker, M., "On Finding All Suboptimal Foldings of an RNA Molecule", <i>Science</i> , 1989 , 244, 48-52	
EXAMINER		DATE CONSIDERED 2-3-03	



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIS-4945	Serial No. 10/029,598
		Applicant Ching-Leou Teng et al.	
		Filing Date December 21, 2001	Group 163 Not yet assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	DN	Branch, A. D. et al., "A Good Antisense Molecule is Hard to Find," <i>TIBS</i> , February 1998 , 23, 45-50	
	DO	Crooke, S., "Antisense '97: A roundtable on the state of the industry," <i>Nature Biotechnology</i> , June 1997 , 15, p. 522	
	DP	Crooke, S, "Basic Principles of Antisense Therapeutics," <i>Antisense Research and Applications</i> , Chapter 1, Springer-Verlag Press, Berlin, Heidelberg, New York, p. 3, June 1998	
	DQ	Gura, T., "Antisense has Growing Pains," <i>Science</i> , 1995 , 270, 575-577	
	DR	Uhlmann, E. et al., "Antisense Oligonucleotides: A New Therapeutic Principle," <i>Chem. Reviews</i> , 1990 , 90, 544-584	
EXAMINER		DATE CONSIDERED 2-2-03	

Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
ISIS-4945

Serial No.
10/029,598

Applicant
Ching-Leou Teng et al.

Filing Date
December 21, 2001

Group **1635**
~~Not yet assigned~~

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>JE</i>	DS	3,687,808	08/29/72	Merigan et al.	195	28
	DT	4,469,863	09/04/84	Ts'o et al.	536	27
	DU	4,476,301	10/09/84	Imbach et al.	536	27
	DV	4,587,044	05/06/86	Miller et al.	530	211
	DW	4,605,735	08/12/86	Miyoshi et al.	536	27
	DX	4,667,025	05/19/87	Miyoshi et al.	536	27
	DY	4,689,320	08/25/87	Kaji	514	44
	DZ	4,762,779	08/09/88	Snitman	435	6
	EA	4,789,737	12/06/88	Miyoshi et al.	536	27
	EB	4,806,463	02/21/89	Goodchild et al.	435	5
	EC	4,824,941	04/25/89	Gordon et al.	530	403
	ED	4,835,263	05/30/89	Nguyen et al.	536	27
	EE	4,845,205	07/04/89	Huynh Dinh et al.	536	28
	EF	4,876,335	10/24/89	Yammane et al.	536	27
	EG	4,878,979	11/07/89	Steinbach	156	344
	EH	4,904,582	02/27/90	Tullis	435	6
	EI	4,948,882	08/14/90	Ruth	536	27
	EJ	4,958,013	09/18/90	Letsinger	536	27
	EK	4,981,957	01/01/91	Lebleu, et al.	536	27
	EL	5,004,810	04/02/91	Draper	536	27
	EM	5,013,830	05/07/91	Ohtsuka et al.	536	27
<i>JE</i>	EN	5,023,243	06/11/91	Tullis	514	44

EXAMINER **JANET LEE EPPS-PORD**

DATE CONSIDERED **2-3-03**

Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
ISIS-4945

Serial No.
10/029,598

Applicant
Ching-Leou Teng et al.

Filing Date
December 21, 2001

Group **1635**
~~Not yet assigned~~

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>JE</i>	EO	5,034,506	07/23/91	Summerton et al.	528	391
	EP	5,082,830	01/21/92	Brakel et al.	514	44
	EQ	5,087,617	02/11/92	Smith	514	44
	ER	5,098,890	03/24/92	Gerwirtz et al.	514	44
	ES	5,109,124	4/28/92	Ramachandran et al.	536	27
	ET	5,112,963	05/12/92	Pieles et al.	536	27
	EU	5,118,800	06/02/92	Smith et al.	536	23
	EV	5,118,802	06/02/92	Smith et al.	536	27
	EW	5,130,302	07/14/92	Spielvogel et al.	514	45
	EX	5,134,066	07/28/92	Rogers et al.	435	91
	EY	5,135,917	08/04/92	Burch	514	44
	EZ	5,138,045	08/11/92	Cook et al.	536	27
	FA	5,149,797	09/22/92	Pederson et al.	536	27
	FB	5,166,195	11/24/92	Ecker	514	44
	FC	5,166,315	11/24/92	Summerton et al.	528	406
	FD	5,175,273	12/29/92	Bischofberger et al.	536	27
	FE	5,177,196	01/05/93	Meyer, Jr. et al.	536	22.1
	FF	5,177,198	01/05/93	Spielvogel et al.	536	25.33
	FG	5,185,444	02/09/93	Summerton et al.	544	81
	FH	5,188,897	2/23/93	Suhadolnik et al.	428	402.2
<i>JE</i>	FI	5,194,428	03/16/93	Agrawal et al.	514	44
EXAMINER <i>JANET EPPS-FORD</i>				DATE CONSIDERED <i>2-3-03</i>		

Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
ISIS-4945

Serial No.
10/029,598

Applicant
Ching-Leou Teng et al.

Filing Date
December 21, 2001

Group **1635**
Not yet assigned

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>Jle</i>	FJ	5,212,295	05/18/93	Cook	536	26.7
	FK	5,214,134	05/25/93	Weis et al.	536	25.3
	FL	5,214,136	05/25/93	Lin et al.	514	44
	FM	5,216,141	06/01/93	Benner	536	27.13
	FN	5,218,105	06/08/93	Cook et al.	536	25.31
	FO	5,220,007	06/15/93	Pederson et al.	536	23.1
	FP	5,223,618	06/29/93	Cook et al.	544	276
	FQ	5,235,033	08/10/93	Summerton et al.	528	391
	FR	5,242,906	09/07/93	Pagano et al.	514	44
	FS	5,245,022	9/14/97	Weis et al.	536	24.5
	FT	5,254,469	10/19/93	Warren, III et al.	435	188
	FU	5,256,775	10/26/93	Froehler	536	25.6
	FV	5,258,506	11/02/93	Urdea	536	23.1
	FW	5,262,536	11/16/93	Hobbs, Jr.	546	25
	FX	5,264,423	11/23/93	Cohen et al.	514	44
	FY	5,264,562	11/23/93	Matteucci	536	23.1
	FZ	5,264,564	11/23/93	Matteucci	536	23.1
	GA	5,272,250	12/21/93	Spielvogel et al.	530	300
	GB	5,276,019	01/04/94	Cohen et al.	514	44
	GC	5,278,302	01/11/94	Caruthers et al.	536	24.5
<i>Jle</i>	GD	5,286,717	02/15/94	Cohen et al.	514	44

EXAMINER

DATE CONSIDERED **2-3-03**

Form PTO-1449 ModifiedDocket No.
ISIS-4945Serial No.
10/029,598List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)Applicant
Ching-Leou Teng et al.U.S. Department of Commerce
Patent and Trademark OfficeFiling Date
December 21, 2001Group **163 S**
~~Not yet assigned~~**U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>JE</i>	GE	5,292,873	03/08/94	Rokita et al.	536	24.3
	GF	5,317,098	05/31/94	Shizuya et al.	536	23.1
	GG	5,319,080	06/07/94	Leumann	536	27.1
	GH	5,321,131	06/14/94	Agrawal et al.	536	25.34
	GI	5,359,044	10/25/94	Cook et al.	536	23.1
	GJ	5,366,878	11/22/94	Pederson et al.	435	91.3
	GK	5,367,066	11/22/94	Urdea et al.	536	24.3
	GL	5,371,241	12/06/94	Brush et al.	549	220
	GM	5,378,825	01/03/95	Cook et al.	536	25.34
	GN	5,386,023	01/31/95	Sanghvi et al.	536	25.3
	GO	5,391,723	02/21/95	Priest	536	23.1
	GP	5,393,878	02/28/95	Leumann	536	28.2
	GQ	5,399,676	03/21/95	Froehler	536	23.1
	GR	5,403,711	04/04/95	Walder et al.	435	6
	GS	5,405,938	04/11/95	Summerton et al.	528	406
	GT	5,405,939	04/11/95	Suhadolnik et al.	530	322
	GU	5,414,077	05/09/95	Lin et al.	536	24.3
	GV	5,416,203	5/16/95	Letsinger	536	25.34
	GW	5,432,272	07/11/95	Benner	536	25.3
	GX	5,434,257	08/18/95	Matteucci et al.	536	24.3
<i>JE</i>	GY	5,446,137	08/29/95	Maag et al.	536	23.1

EXAMINER*Janet E. Ford***DATE CONSIDERED****20303**

Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
ISIS-4945

Serial No.
10/029,598

Applicant
Ching-Leou Teng et al.

Filing Date
December 21, 2001

Group /635
~~Not yet assigned~~

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>JE</i>	GZ	5,451,463	09/19/95	Nelson et al.	428	402
	HA	5,453,496	09/26/95	Caruthers et al.	536	24.5
	HB	5,455,233	10/03/95	Spielvogel et al.	514	44
	HC	5,457,187	10/10/95	Gmeiner et al.	536	25.5
	HD	5,457,191	10/10/95	Cook et al.	536	27.13
	HE	5,459,255	10/17/95	Cook et al.	536	27.13
	HF	5,466,677	11/14/95	Baxter et al.	514	44
	HG	5,466,786	11/14/95	Buhr et al.	536	26.26
	HH	5,470,967	11/28/95	Huie et al.	536	24.3
	HI	5,476,925	12/19/95	Letsinger et al.	536	23.1
	HJ	5,484,908	01/16/96	Froehler et al.	536	24.31
	HK	5,486,603	01/23/96	Buhr	536	24.3
	HL	5,489,677	02/06/96	Sanghvi et al.	536	22.1
	HM	5,491,133	02/13/96	Walder et al.	514	44
	HN	5,502,177	03/26/96	Matteucci et al.	536	2606
	HO	5,506,351	04/09/96	McGee	536	55.3
	HP	5,508,270	04/16/96	Baxter et al.	514	47
	HQ	5,510,475	04/23/96	Agrawal et al.	536	24.3
	HR	5,512,439	04/30/96	Hornes et al.	435	6
	HS	5,512,667	04/30/96	Reed et al.	536	24.31
	HT	5,514,785	05/07/96	Van Ness et al.	536	22.1
<i>JE</i>	HU	5,514,788	05/07/96	Bennett et al.	536	23.1

EXAMINER**DATE CONSIDERED** 2-3-03

Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
ISIS-4945

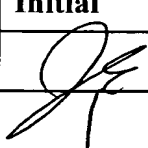
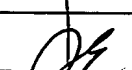
Serial No.
10/029,598

Applicant
Ching-Leou Teng et al.

Filing Date
December 21, 2001

Group **1635**
~~Not yet assigned~~

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
	HV	5,519,126	05/21/96	Hecht	536	24.3
	HW	5,519,134	05/21/96	Acevedo et al.	544	243
	HX	5,521,302	05/28/96	Cook	536	25.31
	HY	5,523,389	06/04/96	Ecker et al.	536	23.1
	HZ	5,525,465	06/11/96	Haralambidis et al.	435	6
	IA	5,525,711	06/11/96	Hawkins et al.	536	22.1
	IB	5,536,821	07/16/96	Agrawal et al.	536	22.1
	IC	5,539,082	07/23/96	Nielsen et al.	530	300
	ID	5,539,083	07/23/96	Cook et al.	530	333
	IE	5,541,306	07/30/96	Agrawal et al.	536	22.1
	IF	5,541,307	07/30/96	Cook et al.	536	23.1
	IG	5,541,313	07/30/96	Ruth	536	24.3
	IH	5,543,508	08/06/96	Haseloff et al.	536	23.2
	II	5,545,729	08/13/96	Goodchild et al.	536	24.5
	IJ	5,545,730	08/13/96	Urdea et al.	536	28.51
	IK	5,550,111	08/27/96	Suhadolnik et al.	514	44
	IL	5,552,538	09/03/96	Urdea et al.	536	24.3
	IM	5,552,540	09/03/96	Haralambidis	536	25.34
	IN	5,554,746	09/10/96	Ravikumar et al.	540	200
	IO	5,561,225	10/01/96	Maddry et al.	536	23.1
	IP	5,563,253	10/08/96	Agrawal et al.	536	22.1

EXAMINER**DATE CONSIDERED****2-3-03**

Form PTO-1449 Modified

List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)

U.S. Department of Commerce
Patent and Trademark Office

Docket No.
ISIS-4945

Serial No.
10/029,598

Applicant
Ching-Leou Teng et al.

Filing Date
December 21, 2001

Group **1635**
~~Not yet assigned~~

U. S. PATENT DOCUMENTS


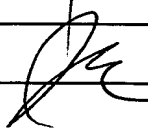
Examiner Initial		Document No.	Date	Name	Class	Subclass
	IQ	5,565,350	10/15/96	Kmiec	435	172.3
	IR	5,565,552	10/15/96	Magda et al.	534	11
	IS	5,567,810	10/22/96	Weis et al.	536	25.3
	IT	5,567,811	10/22/96	Misiura et al.	536	25.34
	IU	5,571,799	11/05/96	Tkachuk et al.	514	47
	IV	5,571,902	11/05/96	Ravikumar et al.	536	22.1
	IW	5,574,142	11/12/96	Meyer, Jr. et al.	536	23.1
	IX	5,576,427	11/19/96	Cook et al.	536	23.1
	IY	5,578,717	11/26/96	Urdea et al.	536	26.1
	IZ	5,578,718	11/26/96	Cook et al.	536	27.21
	JA	5,580,731	12/03/96	Chang et al.	435	6
	JB	5,585,481	12/17/96	Arnold, Jr. et al.	536	25.33
	JC	5,587,361	12/24/96	Cook et al.	514	44
	JD	5,587,371	12/24/96	Sessler et al.	514	185
	JE	5,587,469	12/24/96	Cook et al.	536	23.1
	JF	5,587,470	12/24/96	Cook et al.	536	23.1
	JG	5,591,584	01/07/97	Chang et al.	435	6
	JH	5,591,623	01/07/97	Bennett et al.	435	240.2
	JI	5,591,722	01/07/97	Montgomery et al.	514	45
	JJ	5,594,121	01/14/97	Froehler et al.	536	23.5
	JK	5,595,726	01/21/97	Magda et al.	424	9.61
EXAMINER				DATE CONSIDERED 2-3-03		

Form PTO-1449 Modified				Docket No. ISIS-4945		Serial No. 10/029,598	
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)				Applicant Ching-Leou Teng et al.			
				Filing Date December 21, 2001		Group 1635 Not yet assigned	
U.S. Department of Commerce Patent and Trademark Office							
U. S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	
<i>[Signature]</i>	JL	5,595,978	01/21/97	Draper et al.	514	44	
	JM	5,596,086	01/21/97	Matteucci et al.	536	22.1	
	JN	5,596,091	01/21/97	Switzer	536	24.5	
	JO	5,597,696	01/28/97	Linn et al.	435	6	
	JP	5,597,909	01/28/97	Urdea et al.	536	24.3	
	JQ	5,599,797	02/04/97	Cook et al.	514	44	
	JR	5,599,923	02/04/97	Sessler et al.	540	145	
	JS	5,599,928	02/04/97	Hemmi et al.	540	474	
	JT	5,602,240	02/11/97	De Mesmaeker et al.	536	23.1	
	JU	5,608,046	03/04/97	Cook et al.	536	23.1	
	JV	5,610,289	03/11/97	Cook et al.	536	25.34	
	JW	5,610,300	03/11/97	Altmann et al.	544	244	
	JX	5,614,617	03/25/97	Cook et al.	536	23.1	
	JY	5,618,704	04/08/97	Sanghvi et al.	435	91.5	
	JZ	5,623,070	04/22/97	Cook et al.	536	27.6	
	KA	5,623,065	04/22/97	Cook et al.	536	23.1	
	KB	5,625,050	04/29/97	Beaton et al.	536	24.1	
	KC	5,633,360	05/27/97	Bischofberger et al.	536	22.1	
	KD	5,639,873	06/17/97	Barascut et al.	536	25.3	
	KE	5,646,265	07/08/97	McGee	536	25.34	
KF	5,652,355	07/29/97	Metlev et al.	536	24.5		
KG	5,652,356	07/29/97	Agrawal	536	24.5		
EXAMINER <i>[Signature]</i>				DATE CONSIDERED <i>2-3-02</i>			

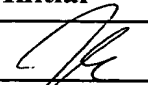



Form PTO-1449 ModifiedDocket No.
ISIS-4945Serial No.
10/029,598List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)Applicant
Ching-Leou Teng et al.U.S. Department of Commerce
Patent and Trademark OfficeFiling Date
December 21, 2001Group **1635**
~~Not yet assigned~~**U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>JE</i>	KH	5,658,873	08/19/97	Bertsch-Frank et al.	510	375
	KI	5,663,312	09/02/97	Chaturvedula	536	22.1
	KJ	5,670,633	09/23/97	Cook et al.	536	23.1
	KK	5,672,359	09/30/97	Digenis, et al.	424	463
	KL	5,674,530	10/07/97	Amidon et al.	424	472
	KM	5,677,437	10/14/97	Teng et al.	536	23.1
	KN	5,677,439	10/14/97	Weis et al.	536	23.1
	KO	5,681,941	10/28/97	Cook et al.	536	23.1
	KP	5,688,941	11/18/97	Cook et al.	536	25.3
	KQ	5,697,248	12/16/97	Brown	73	290
	KR	5,700,920	12/23/97	Altmann et al.	536	221
	KS	5,700,922	12/23/97	Cook	536	23.1
	KT	5,705,188	01/06/98	Junichi, et al.	424	450
	KU	5,714,331	02/03/98	Buchardt et al.	435	6
	KV	5,716,780	02/10/98	Edwards et al.	435	6
	KW	5,719,262	02/17/98	Buchardt et al.	530	300
	KX	5,877,309	03/99	McKay et al.	536	24.5
	KY	6,120,803	09/00	Wong et al.	424	473
	KZ	5,853,748	12/98	New et al.	424	439
	LA	5,591,840	01/07/97	Narayanan et al.	536	24.5
<i>JE</i>	LB	5,656,272	08/12/97	Le et al.	424	133.1
EXAMINER <i>Just Efford</i>				DATE CONSIDERED <i>2703</i>		

Form PTO-1449 ModifiedDocket No.
ISIS-4945Serial No.
10/029,598List of Patent and Publications
Cited by Applicant
(Use several sheets if necessary)Applicant
Ching-Leou Teng et al.U.S. Department of Commerce
Patent and Trademark OfficeFiling Date
December 21, 2001Group **1635**
~~Not yet assigned~~**U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
	LC	5,631,237	05/20/97	Dzau et al.	514	44
	LD	5,108,921	04/28/92	Low et al.	435	375
	LE	6,111,094	04/17/98	Bennett et al.	536	24.5
	LF	4,828,979	05/09/89	Klevan et al.	435	6
	LG	5,223,168	06/29/93	Holt	510	238
	LH	5,627,053	05/06/97	Usman et al.	435	91.1
	LI	6,127,533	10/03/00	Cook et al.	536	23.1
	LJ	6,262,241 B1	07/17/01	Cook et al.	435	5
	LK	5,843,738	12/01/98	Bennett et al.	435	375
	LL	5,955,589	09/21/99	Cook	536	23.1
	LM	5,859,221	01/12/99	Cook et al.	536	23.1
	LN	6,335,434 B1	01/01/02	Guzaev et al.	536	23.1
	LO	09/098,166	06/16/98	Manoharan et al.		

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation YES NO	
	LP	WO 93/24510	12/09/93	PCT		
	LQ	WO 94/02499	02/03/94	PCT		
	LR	WO 94/17093	08/04/94	PCT		
	LS	WO 97/30731	08/28/97	PCT		

EXAMINER**DATE CONSIDERED** **2-3-03**